

WHAT IS CLAIMED IS:

1-19 (Canceled)

20. (New) A two-sided illuminated panel, comprising a first diffuser and a second diffuser arranged so as to face each other and adapted to form internally at least one chamber, said chamber being closed laterally, comprising one or more light sources supported laterally, and further comprising at least one partition arranged diagonally within said chamber, which is adapted to equalize the light emitted by said one or more light sources on said first and second diffusers.

10 21. (New) The illuminated panel according to claim 20, wherein said partition is a Lambertian gauze with localized weft density increase, adapted to provide diffusion of the light emitted by said one or more light sources.

15 22. (New) The illuminated panel according to claim 20, wherein said partition is a transparent alveolate panel, adapted to provide refraction and diffraction of the light emitted by said one or more light sources.

23. (New) The illuminated panel according to claim 20, wherein said one or more light sources are LEDs.

24. (New) The illuminated panel according to claim 20, wherein said first and second diffusers are opalescent diffusers.

20 25. (New) The illuminated panel according to claim 20, wherein said first and second diffusers are transparent alveolate panels.

25 26. (New) The illuminated panel according to claim 23, wherein said partition is arranged diagonally within said chamber of said illuminated panel, so as to cover said one or more LEDs supported by one of covering elements arranged to close laterally the chamber and so as to leave exposed said one or more LEDs supported by another one of said covering elements.

30 27. (New) The illuminated panel according to claim 20, wherein said transparent alveolate diffusers and said transparent alveolate partition comprise cannulas arranged at right angles to the light emission setting of said one or more light sources.

28. (New) The illuminated panel according to claim 27, wherein said diffusers and said partition are formed monolithically.

29. (New) The illuminated panel according to claim 20, wherein said first and second diffuser elements form a plurality of chambers arranged 5 parallel and adjacent to each other.

30. (New) The illuminated panel according to claim 29, wherein said covering elements support a plurality of LEDs, each LED facing a respective one of said chambers, a partition being arranged diagonally within each one of said chambers, said partition being adapted to equalize the light emitted 10 by said LEDs.

31. (New) The illuminated panel according to claim 30, wherein said partition is a Lambertian diffuser element constituted by a continuous band that is adapted to lie diagonally within a chamber in order to pass into the directly adjacent chamber diagonally in a zigzag configuration.

15 32. (New) The illuminated panel according to claim 31, wherein said band is a white band of elasticized gauze.

33. (New) The illuminated panel according to claim 31, wherein said band is an opalescent elastomeric band.

20 34. (New) The illuminated panel according to claim 31, wherein said band is a continuous band that is adapted to twist in a helical fashion inside each one of said chambers formed in said body.

35. (New) The illuminated panel according to claim 34, wherein said band arranged in a helical shape is rotated through 180° over the entire length of each one of said chambers formed in said body.

25 36. (New) The illuminated panel according to claim 30, wherein said partition is constituted by a transparent alveolate panel that is arranged diagonally within each one of said chambers, said panel being adapted to produce refraction and diffraction of the light emitted by said LEDs.

37. (New) The illuminated panel according to claim 36, wherein the 30 cannulas of said transparent alveolate partitions are arranged at right angles

to the direction of emission of the light of said LEDs.

38. (New) The illuminated panel according to claim 20, further comprising a panel arranged so as to close upwardly said at least one chamber, said panel having a reflective inner surface.